

# WESTERN UPPER PENINSULA SHOOTING FACILITY

CONSTRUCTION PLANS FOR

# MICHIGAN DEPARTMENT OF TECHNOLOGY, MANAGEMENT & BUDGET

T.51 North, R.41 West ONTONAGON COUNTY, MICHIGAN

FILE NO.: 751 / 17172.JBB

## PROJECT PERMITS

DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS (DLARA) A PERMIT FROM DLARA IS REQUIRED FOR INSTALLATION OF PROPOSED ON—SITE PAVING, UNDERGROUND PIPING AND BUILDING, MECHANICAL AND PLUMBING CONSTRUCTION. PLANS HAVE BEEN PROVIDED FOR REVIEW, AND THE CONTACTOR IS RESPONSIBLE FOR APPLYING FOR THE PERMIT, COORDINATING ALL INSPECTIONS AND PAYING ALL FEES.

WESTERN UPPER PENINSULA HEALTH DEPARTMENT
A PERMIT FROM THE COUNTY HEALTH DEPARTMENT IS REQUIRED FOR
INSTALLATION OF THE SEPTIC SYSTEM. PLANS HAVE BEEN PROVIDED FOR
REVIEW, AND THE CONTTACTOR IS RESPONSIBLE FOR APPLYING FOR THE
PERMIT, COORDINATING ALL INSPECTIONS AND PAYING ALL FEES.

MICHIGAN DEPARTMENT OF TRANSPORTATION

A PERMIT FROM MDOT IS REQUIRED FOR WORK IN THE M-64
RIGHT-OF-WAY. PLANS HAVE BEEN PROVIDED FOR REVIEW, AND THE
CONTACTOR IS RESPONSIBLE FOR APPLYING FOR THE PERMIT, COORDINATING
ALL INSPECTIONS AND PAYING ALL FEES.

SOIL EROSION AND SEDIMENTATION CONTROL PERMIT A PERMIT FROM THE DTMB FOR THE SOIL EROSION AND SEDIMENTATION CONTROL, PRIOR TO EARTHWORK ACTIVITIES ON THE PROJECT. PLANS HAVE BEEN PROVIDED FOR REVIEW, AND THE CONTACTOR IS RESPONSIBLE FOR APPLYING FOR THE PERMIT, COORDINATING ALL INSPECTIONS AND PAYING ALL FEES.

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY (EGLE) A PERMIT FROM EGLE WILL BE REQUIRED FOR THE PROPOSED WATER MAIN INSTALLATION. THE CONTRACTOR SHALL COORDINATE AS NEEDED WITH THE LOCAL WATER SYSTEM OWNER AND COMPETE ALL WORK IN ACCORDANCE WITH THAT PERMIT. PERMIT WILL BE SUPPLIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF THE WORK.



### Architect

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# Civil Engineer

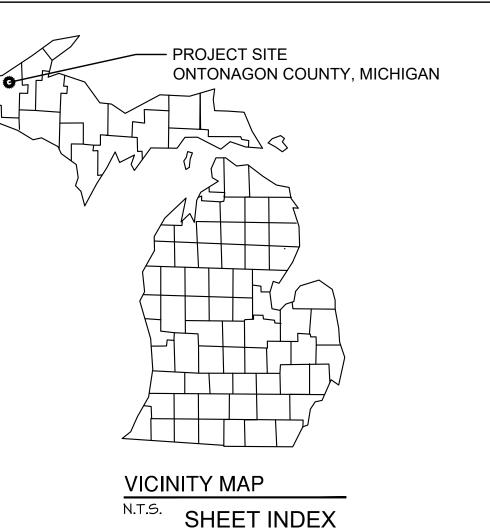
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SHEET NO.	TITLE
M-001	MECHANICAL NOTES AND SYMBOLS
M-101	MECHANICAL PLAN
M-401	MECHANICAL SCHEDULES
E-001	ELECTRICAL NOTES AND SYMBOLS
E-101	FLOOR 1 POWER PLAN
E-102	FLOOR 1 LIGHTING PLAN
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL DIAGRAMS
E-601	ELECTRICAL SCHEDULE

MECHANICAL AND ELECTRICAL PLANS - SHEET INDEX



**CIVIL PLANS - SHEET INDEX** 

TITLE

SEPTIC / WATER MAIN AND PRIVATE SERVICES PLAN

GENERAL ARCHITECTURAL PLANS - SHEET INDEX

STRUCTURAL PLANS - SHEET INDEX

ARCHITECTURAL PLANS - SHEET INDEX

TITLE

PLUMBING PLANS - SHEET INDEX

TITLE

SEPTIC ABSORPTION FIELD DESIGN AND DETAILS

DEVELOPMENT AREA TOPOGRAPHIC SURVEY

SHEET

SHEET

SHEET

TITLE SHEET

PAVING / GRADING PLAN

NOTES AND DETAILS PLAN

G-101 | CODE COMPLIANCE PLAN

S-002 | STRUCTURAL STANDARDS

SF101 STRUCTURAL FRAMING PLAN

SB101 FOUNDATION PLAN

SF111 ROOF FRAMING PLAN

A-101 | MAIN FLOOR PLAN

A-121 ROOF PLAN

AF101 | MAIN FLOOR FINISH PLAN

A-201 | EXTERIOR ELEVATIONS

A-301 | BUILDING SECTIONS

A-302 | BUILDING SECTIONS

A-303 | BUILDING SECTIONS

A-451 INTERIOR ELEVATIONS

A-601 DOOR SCHEDULE & DETAILS

A-602 | WINDOW SCHEDULE & DETAILS

P-001 | GENERAL PLUMBING INFORMATION

A-311 | WALL SECTIONS

A-312 | WALL SECTIONS

A-313 | WALL SECTIONS

P-101 | PLUMBING PLAN

NO.

SHEET

WATER METER VAULT DETAILS

S-001 | STRUCTURAL NOTES AND SYMBOLS

S-003 | STRUCTURAL STANDARD DETAILS

A-001 | ARCHITECTURAL NOTES & SYMBOLS

A-002 TYPICAL DETAILS & WALL ASSEMBLIES

A-111 MAIN FLOOR REFLECTED CEILING PLAN

ACCESS ROAD CROSS SECTIONS

ER	46777 WOODWARD AVENUE PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257
CIVIL ENGINEER	CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS
	ENGINEERS

			Bid Documents	2020-01-13 Phase 500 90% Review	2020-11-04 Phase 500 50% Review	REVIEW
			2021-03-11	2020-01-13	2020-11-04	DATE
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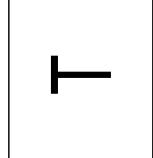
DESIGN AND CONSTRUCTION DIVISION

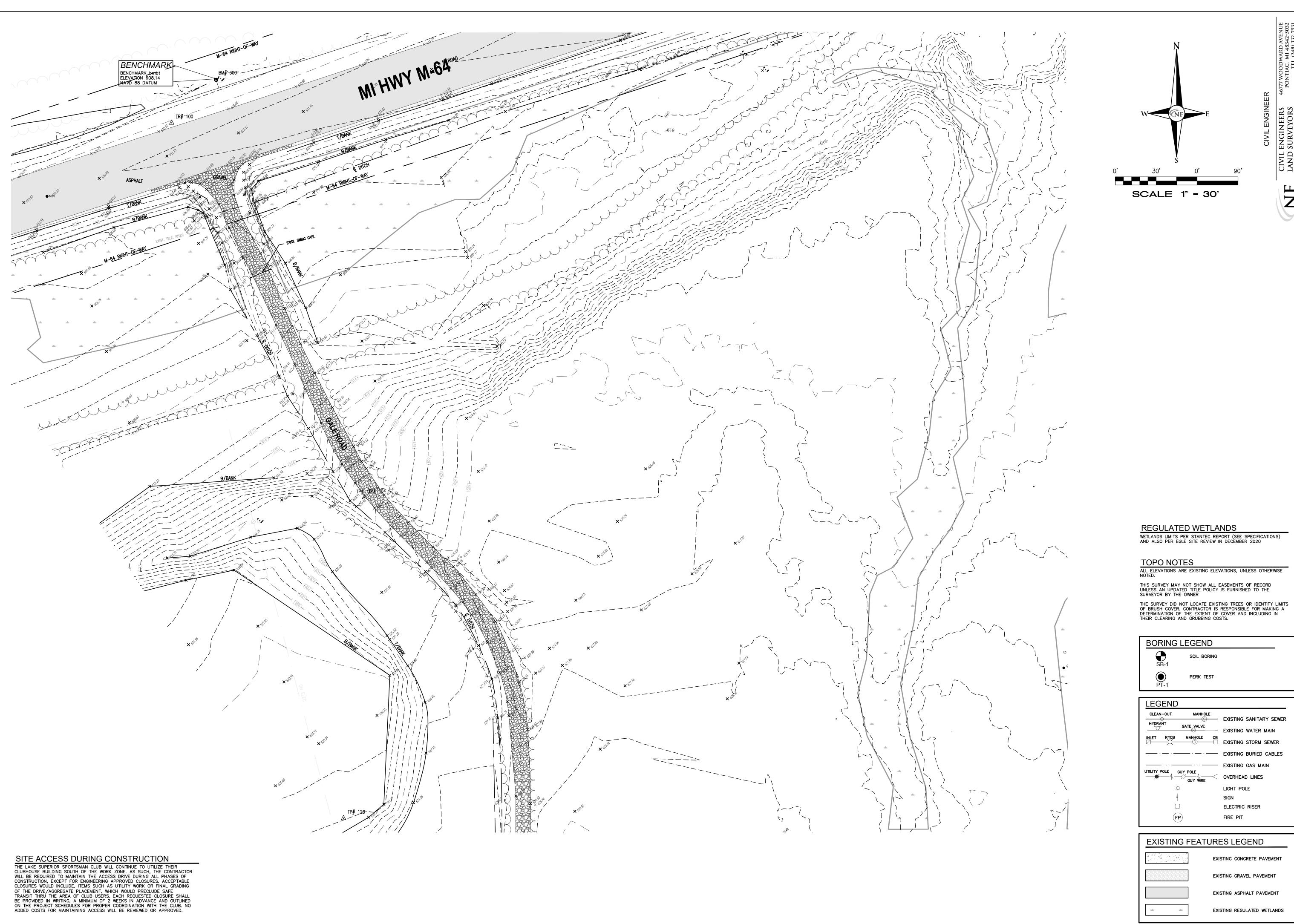
ROBERT C. HALL, RA, NCARB, DIRECTOR

# WESTERN UPPER PENINSUL, SHOOTING FACILITY

TITLE SHEET

751/17172.JBB	25350	0000-00	MAW	MAW	SMS	
FILE NO. 751/	INDEX	PCA	DRAWN BY	DESIGNED BY	JC/ENG BY	





SHOOTI

-- EXISTING WATER MAIN

OVERHEAD LINES

LIGHT POLE SIGN

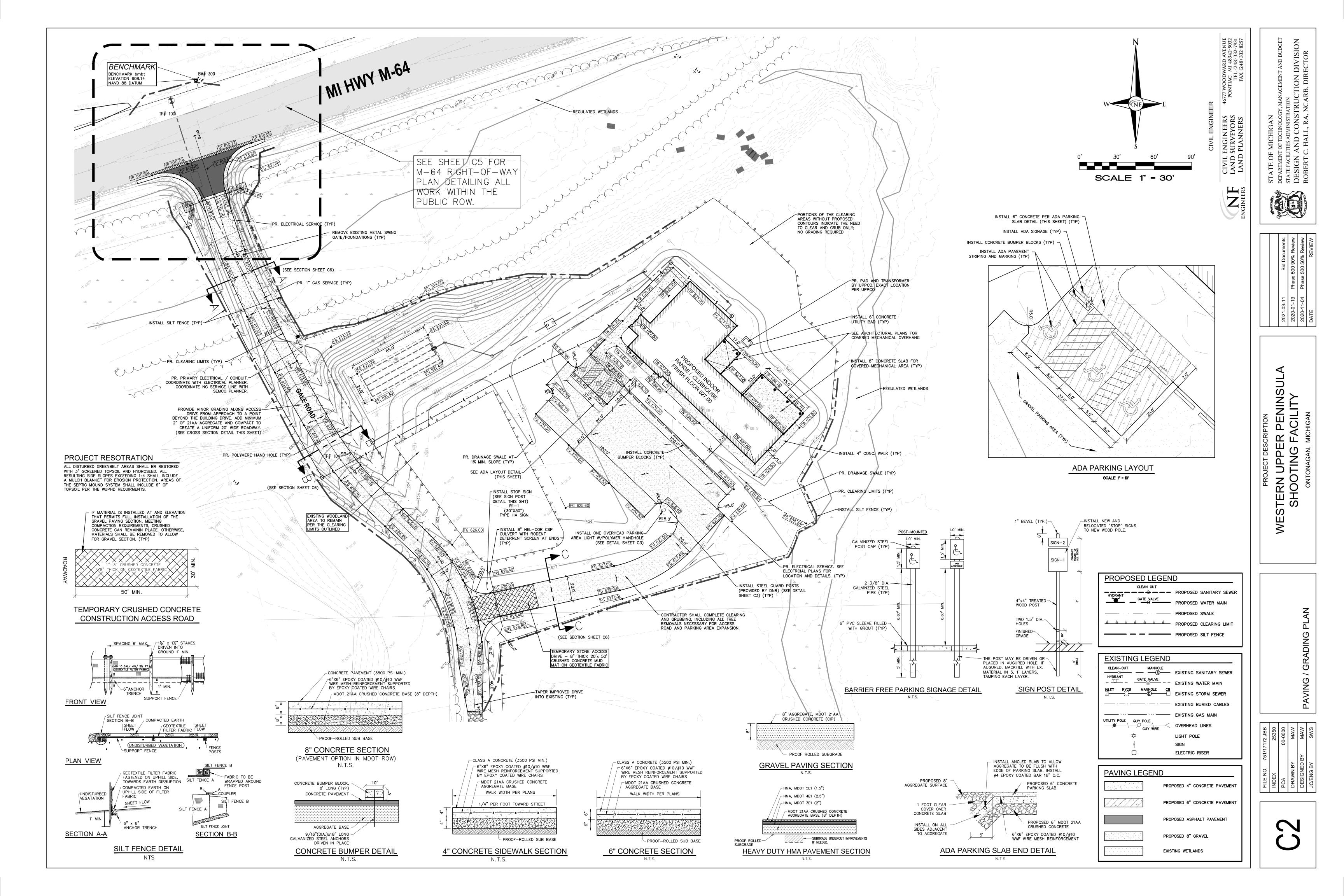
ELECTRIC RISER

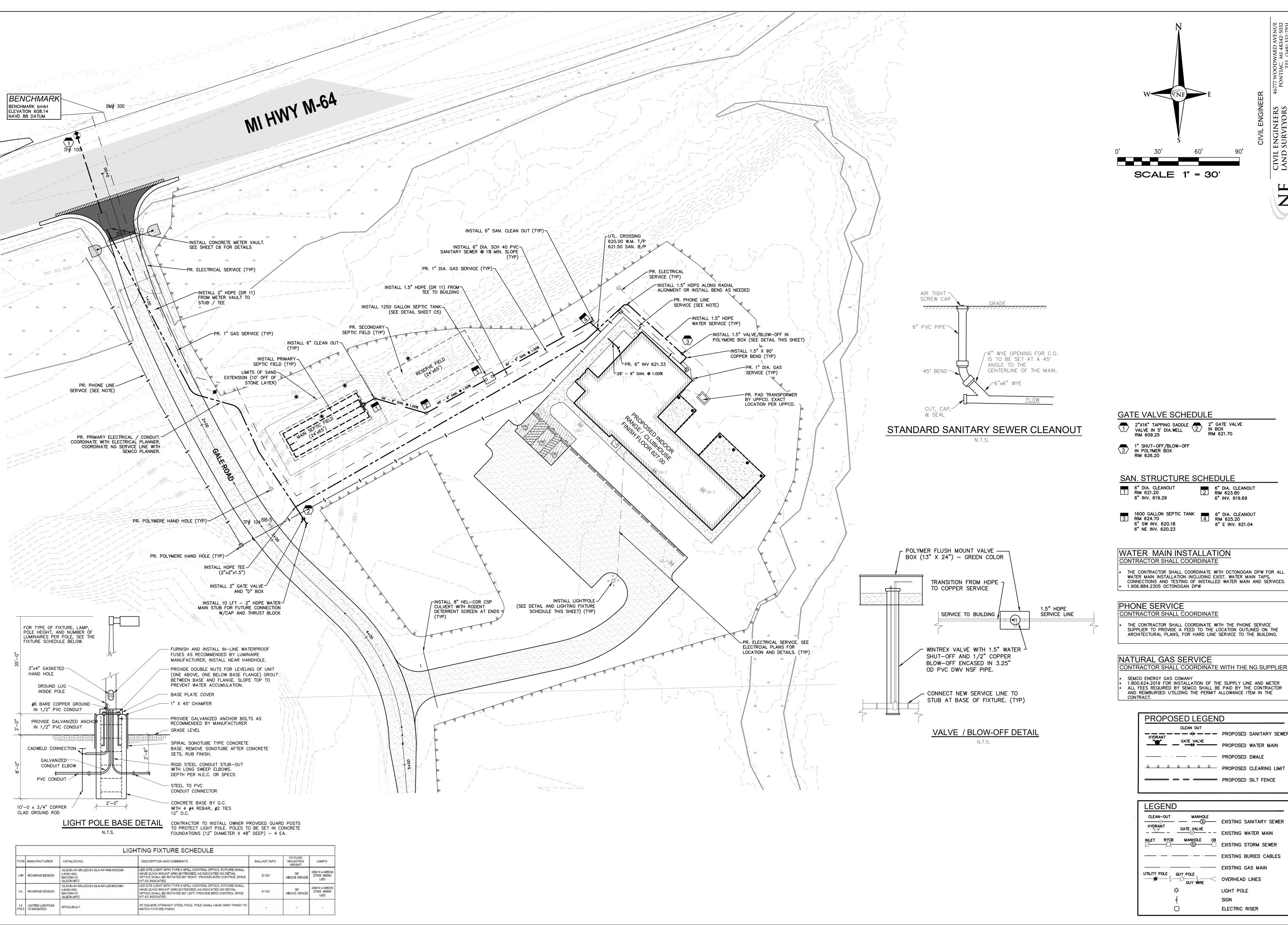
EXISTING CONCRETE PAVEMENT

EXISTING GRAVEL PAVEMENT

EXISTING ASPHALT PAVEMENT

EXISTING REGULATED WETLANDS





SCALE 1" = 30'



SHOOTI

2 RIM 623.80 6" INV. 619.69

6" E INV. 621.04

WATER MAIN INSTALLATION

CONTRACTOR SHALL COORDINATE

CONTRACTOR SHALL COORDINATE

THE CONTRACTOR SHALL COORDINATE WITH THE PHONE SERVICE SUPPLIER TO PROVIDE A FEED TO THE LOCATION OUTLINED ON THE ARCHITECTURAL PLANS, FOR HARD LINE SERVICE TO THE BUILDING.

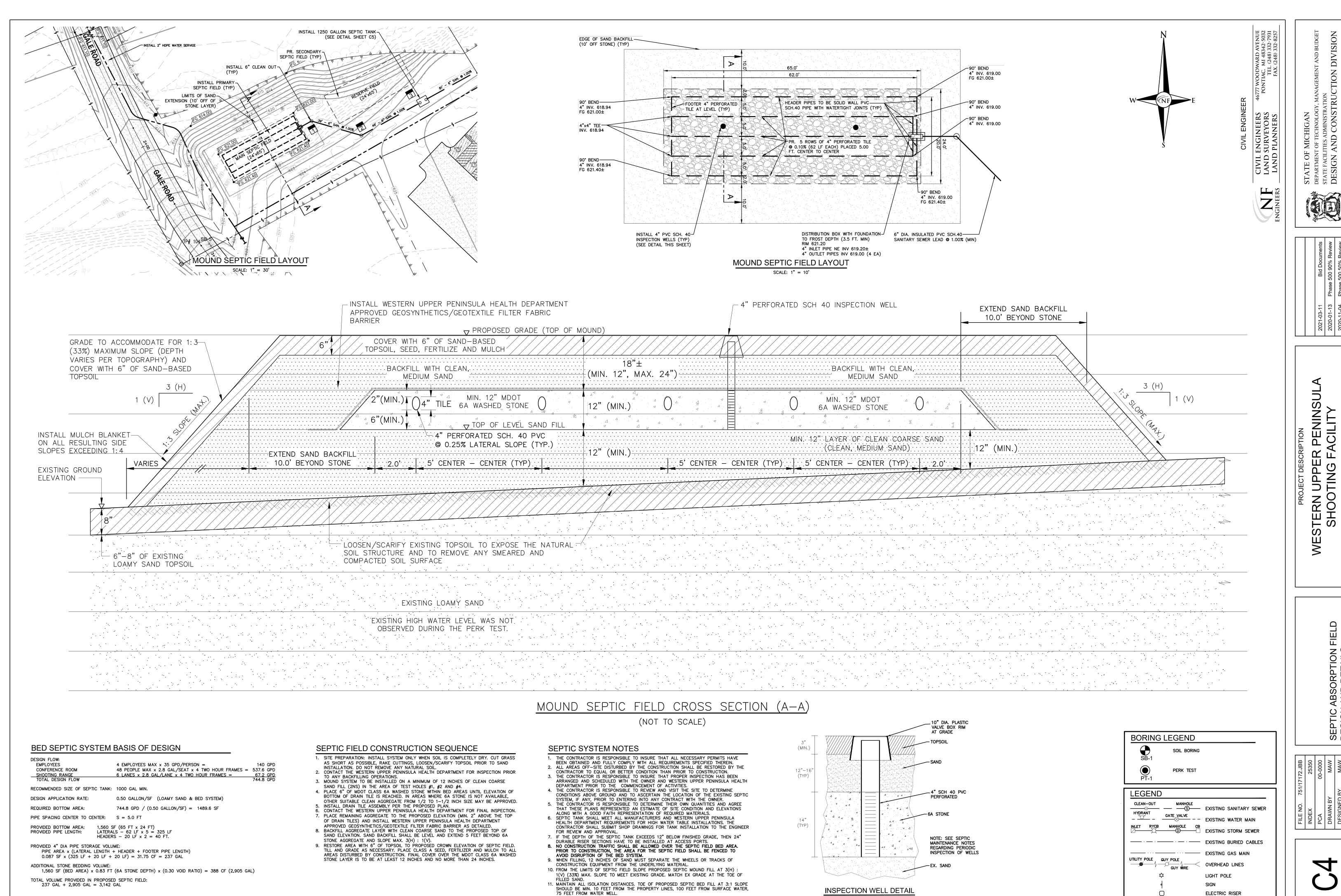
CONTRACTOR SHALL COORDINATE WITH THE NG SUPPLIER SEMCO ENERGY GAS COMANY
1.800.624.2019 FOR INSTALLATION OF THE SUPPLY LINE AND METER
ALL FEES REQUIRED BY SEMCO SHALL BE PAID BY THE CONTRACTOR
AND REIMBURSED UTILIZING THE PERMIT ALLOWANCE ITEM IN THE
CONTRACT.

PROPOSED LEGE	END
CLEAN OUT	
HYDRANT	<ul> <li>PROPOSED SANITARY SEWE</li> </ul>
GATE VALVE	PROPOSED WATER MAIN
· · · · · ·	- PROPOSED SWALE
	PROPOSED CLEARING LIMIT
	PROPOSED SILT FENCE

LEGEND		
CLEAN-OUT  OHYDRANT	MANHOLE  GATE VALVE	EXISTING SANITARY SEWER
	<u></u> → − −	EXISTING WATER MAIN
INLET RYCB	MANHOLE CB	EXISTING STORM SEWER
	·	EXISTING BURIED CABLES
UTILITY POLE		EXISTING GAS MAIN
<u> </u>	GUY WIRE	OVERHEAD LINES
\$	(	LIGHT POLE
4		SIGN
	)	ELECTRIC RISER

WATER MAIN AND SERVICES PLAN

SEPTIC / PRIVATE



ABSORPTION IN AND DETAILS

SEPTIC / DESIGN

CTION DIVISION OB, DIRECTOR

SOIL EROSION CONTROL - SEQUENCE OF OPERATION (NEW CONSTRUCTION) INSTALL CRUSHED CONCRETE ACCESS DRIVE AND TEMPORARY CULVERTS AT THE SITE ENTRANCE AS INDICATED ON THE PLANS.

INSTALL SILT FENCE OR SIMILAR APPROVED SILT BARRIER AROUND SENSITIVE NATURAL FEATURES AS INDICATED ON THE PLANS.

IF INDICATED ON CONSTRUCTION PLANS, SEDIMENTATION BASINS, DETENTION POND, ETC., SHALL BE CONSTRUCTED PRIOR TO THE INSTALLATION OF ANY OTHER WORK. STRIP EXISTING TOPSOIL, VEGETATION AND ORGANIC MATTER FROM BUILDING PAD AND PARKING AREAS. COMMENCE LAND BALANCE AND MASS GRADING OPERATIONS. MAINTAIN A MINIMUM BUFFER OF 15' OF EXISTING VEGETATION WHEREVER POSSIBLE AROUND SITE PERIMETER.

EXCAVATE AND INSTALL UNDERGROUND UTILITIES.

COMMENCE FINAL GRADING AND TRIMMING OPERATIONS. PREPARE SUBGRADE FOR INSTALLATION OF PROPOSED PAVEMENT.

SEED AND MULCH ALL DISTURBED SITE AREAS AND INSTALLED SITE LANDSCAPING. REMOVE CONSTRUCTION DEBRIS AND JET VAC NEWLY INSTALLED STORM SEWER SYSTEM AS

STOCK PILES SHOULD BE LOCATED AWAY FROM EXISTING DRAINAGE FACILITIES.

REQUIRED BY THE MUNICIPALITY. REMOVE ALL REMAINING TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ONCE PERMANENT MEASURES ARE ESTABLISHED.

WHENEVER POSSIBLE, THE SITE SHALL BE GRADED TO WITHIN SIX INCHES (6") OF THE PROPOSED FINISH GRADE PRIOR TO INSTALLATION OF UNDERGROUND FACILITIES. STAGING OF PROPOSED WORK SHALL BE COMPLETED BY THE CONTRACTOR AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED AREAS.

### SOIL EROSION CONTROL

PERMANENT SOIL EROSION CONTROL MEASURES.

CUTTING, FILLING AND GRADING SHALL BE MINIMIZED AND THE NATURAL TOPOGRAPHY OF THE SITE SHALL BE PRESERVED TO THE MAXIMUM POSSIBLE EXTENT, EXCEPT WHERE SPECIFIC FINDINGS DEMONSTRATE THAT MAJOR ALTERATIONS WILL STILL MEET THE PURPOSES AND REQUIREMENTS OF THIS ORDINANCE.

DEVELOPMENT SHALL BE STAGED TO KEEP THE EXPOSED AREAS OF SOIL AS SMALL AS PRACTICABLE.

SOIL EROSION CONTROL MEASURES SHALL BE INSTALLED BETWEEN THE DISTURBED AREA AND ANY WATERCOURSES, INCLUDING RIVERS, STREAMS, CREEKS, LAKES, PONDS AND OTHER WATERCOURSES; WETLANDS; OR ROADWAYS ON OR NEAR THE SITE.

SEDIMENT RESULTING FROM ACCELERATED SOIL EROSION SHALL BE REMOVES FROM RUNOFF WATER BEFORE THAT WATER LEAVES THE SITE.

TEMPORARY AND PERMANENT SOIL EROSION CONTROL MEASURES DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF WATER AROUND, THROUGH, OR AWAY FROM THE SITE SHALL BE

TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE REMOVED AFTER PERMANENT SOIL EROSION CONTROL MEASURES HAVE BEEN IMPLEMENTED. ALL SITES SHALL BE STABILIZED WITH

IF LAKES, PONDS, CREEKS, STREAMS, OR WETLANDS ARE LOCATED ON OR NEAR THE SITE, EROSION CONTROL MEASURES WHICH DIVERT RUNOFF AND TRAP SEDIMENT MUST BE PROVIDED AT STRATEGIC LOCATIONS. STRAW BALE BERMS MAY BE USED AS TEMPORARY STORMWATER DIVERSION STRUCTURES, BUT WILL NOT BE CONSIDERED SUFFICIENT FOR TRAPPING SEDIMENT THE USE OF SEDIMENT BASINS, FILTER FABRIC, VEGETATED BUFFER STRIPS, AND ROCK FILTERS IN LIEU OF STRAW BALE BERMS SHALL BE STRONGLY ENCOURAGED. OTHER MEASURES MAY BE REQUIRED IF REASONABLY DETERMINED TO BE NECESSARY TO PROTECT A WATERCOURSE OR

WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE HAS BEEN COMPLETED OR WHEN SIGNIFICANT EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE INSTALLED.

PERMANENT EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 15 (FIFTEEN) CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED.

VEGETATED BUFFER STRIPS SHALL BE CREATED OR RETAINED ALONG THE EDGES OF ALL LAKES, PONDS, CREEKS, STREAMS, OTHER WATERCOURSES, OR WETLANDS. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL RECEIVE REGULAR MAINTENANCE TO

ASSURE PROPER FUNCTIONING.

A DISTANCE OF 120 FEET TO THE NEAREST BODY OF WATER LAKE SUPERIOR TO THE NORTH. THE TOTAL AREA OF EARTH DISRUPTION IS 2.430 ACRES. THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND

AFTER EVERY STORM EVENT BY THE CONTRACTOR. A SOIL EROSION PERMIT IS REQUIRED FROM THE DTMB.

### SOIL DATA

ACCESSED 10/26/2020.

THIS SITE CONSISTS OF 88.3% BIG IRON-FLINTSTEEL-GULL POINT, FREQUENTLY FLOODED, COMPLEX, DISSECTED, 1-15% SLOPES, AND 11.7% MISHWABIC SILT LOAM, 0-2% SLOPES. BASED ON DATA PROVIDED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE,

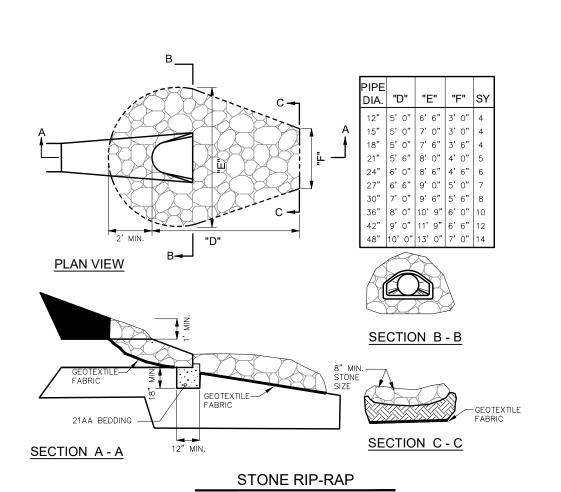
### DNR PROVIDED GATE

POWDER COATED STEEL PIPE RAIL GATE FOR INSTALLATION. THE CONTRTACTOR SHALL COORDINATE WITH THE OWNER FOR DELIVERY AND SHALL INCLUDED ALL INSTALLATION, INCULDING 12" DIA. CONCRETE FOUNDATION (42" DEPTH) FOR EACH POST.

### APPROACH PAVING SECTION

FOR THE PAVED ENTRY APPROACH. BOTH HMA AND CONCRETE SECTIONS HAVE BEEN PROVIDED. ALL COST FOR EITHER SECTION

### CONSTRUCTION SEQUENCE / TIMING SCHEDULE 1. INSTALL PERIMETER FILTER FABRIC FENCING AND STONE FILTER WHERE REQUIRED. MAY, 2021 MASS GRADE SITE. MAY, 2021 3. COMMENCE UNDERGROUND UTILITY WORK. MAY, 2021 4. COMPLETE ALL BUILDINGS AND LANDSCAPE ACTIVITY. JUNE, 2021 5. FILL IN SEDIMENTATION TRAPS AND PAVE SITE. JULY, 2021 6. REMOVE ALL TEMPORARY SOIL EROSION MEASURES. AUG, 2021



THE OWNER WILL PROVIDE TO THE CONTRACTOR A DUAL SWING

THE CONTRACTOR MAY DECIDE ON THE PAVEMENT CROSS SECTION SHALL BE INLCUDED IN THE BASE BID.

PLACED AT OUTLET TO

### INSTALL FABRIC SILT FENCE FENCE AS NEEDED TO PROTEXT AGAINST EROSION DURING THE WATER MAIN INSTALLATION. |BENCHMARK BENCHMARK bmbt FLEVATION 608.14 NAVD 88 DATUM COMPLETE ALL CLEARING AND GRUBBING AS—REQUIRD TO ACCESS BOTH THE EXISTING WATER INSTALL 16" X 2" TAPPING SADDLE AND VALVE IN 5' DIA. GATE WELL MAIN AND NG LINE FOR CONNECTIONS PR. 2" HDPE (DR11) WATER SERVICE TP# 100 2" HDPE TO BE DIRECTIONALLY DRILLED ACROSS THE M-64 ROADWAY TO THE METER VAULT TAPER SHOULDER AND BLEND WITH EXISTING (TYP) INSTALL 2' WD. HMA BUTT JOINT (TYP) -INSTALL 3' WIDE MIDOT (21AA) INSTALL 6" HMA DRIVE APPROACH (TYP) AGGREGATE SHOULDER (8" MIN. DEPTH) (TYP) PR. CLEARING LIMITS (TYP)

REMOVE EX. LSSC ENTRY SIGN/FOUNDATIONS

TO FACILITATE THE APPROACH WORK.

INSTALL 24" CMP CULVERT @ 0.75%

PR. PHONE LINE SERVICE (SEE NOTE) -

LOCATION OF NEW ENTRY GATE (SEE NOTE) -

REMOVE<sup>1</sup> EXIST. CULVERT

INSTALL STD. END SECTIONS,-RIP-RAP AND STEEL BAR GRATE

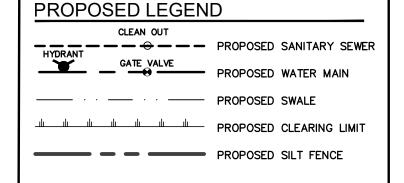
INSTALL FABRIC SILT FENCE -

REMOVE EXISTING METAL SWING -

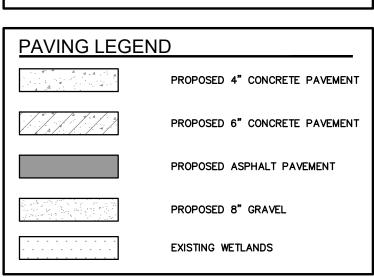
GATE/FOUNDATIPNS (TYP)

PROVIDE MINOR GRADING/EXCAVATION WITHIN THE DITCH-

TO PROVIDED POSITIVE DRAINAGE TO THE NEW CULVERT



EXISTING LE	GEND	
CLEAN-OUT M	ANHOLE S	EXISTING SANITARY SEWER
GATE V	<u>'ALVE</u>	EXISTING WATER MAIN
INLET RYCB MANI-		EXISTING STORM SEWER
		EXISTING BURIED CABLES
···		EXISTING GAS MAIN
UTILITY POLE GUY POLE  GUY	WIRE	OVERHEAD LINES
ф		LIGHT POLE
4		SIGN
		ELECTRIC RISER



REMOVE AND RELOCATE EXIST.

-INSTALL ENTRY GATE LIGHT (TYP)

-PR. 1" ELECTRIC SERVICE (TYP)

/ INSTALL 2" HDPE WATER SERVICE

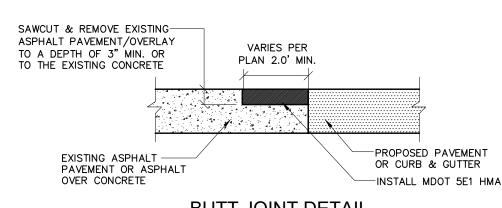
-PR. 1" GAS SERVICE (TYP)

SIGN (TYP)

UTL. CROSSING

<sup>™</sup> 604.50 W.M. T/P

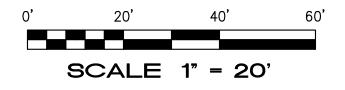
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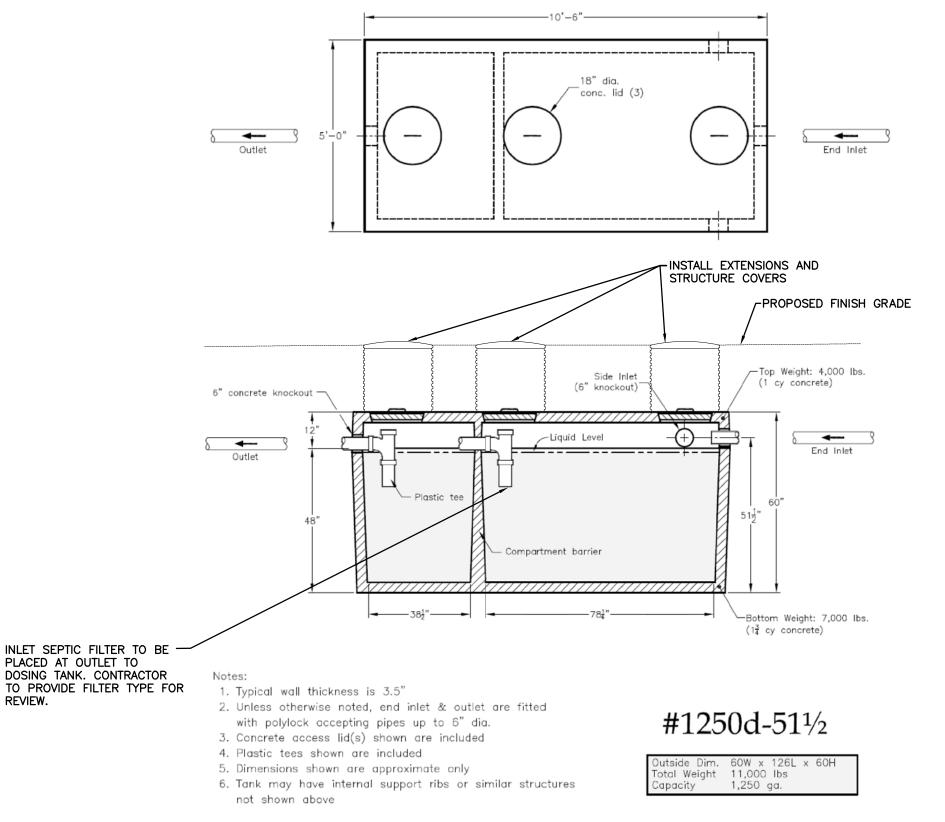


BUTT JOINT DETAIL

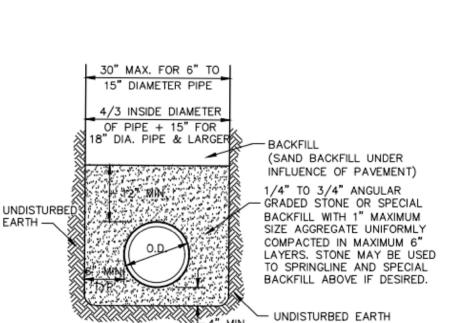
# M-64 RIGHT-OF WAY IMPROVEMENTS

RO

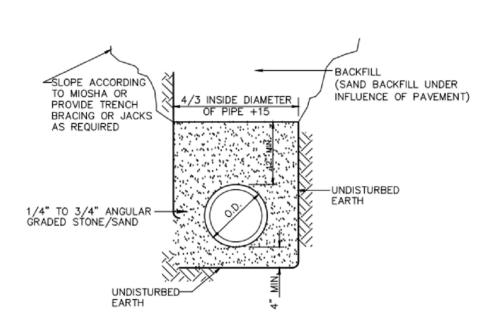




1,250 GALLON DUAL COMPARTMENT SEPTIC TANK SEPTIC TANK DETAIL



### SANITARY SEWER TRENCH DETAILS NOT TO SCALE



WATER MAIN TRENCH DETAILS NOT TO SCALE

### LANE CLOSURES

LANE CLOSURES (TRAFFIC REGULATION) ON M-64 WILL ONLY BE PERMITTED BASED ON APPROVAL OF LANE CLOSURE RÈQUEST FORM SUBMITTED.

NO WORK WILL BE ALLOWED, OR LANE CLOSURES PERMITTED ON M-64 DURING EASTER, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, THANKSGIVING, CHRISTMAS AND NEW YEAR'S HOLIDAY PERIODS

AND ANY OTHER DESIGNED STATE HOLIDAY AS DEFINED BY THE ENGINEER. ACCESS TO ALL RESIDENTIAL AND COMMERCIAL DRIVEWAYS MUST BE MAINTAINED AT ALL TIMES.

ALL TRAFFIC CONTROL DEVICES AND THEIR USAGE MUST CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD), 2011 EDITION.

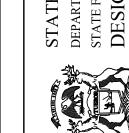
DURING THE LANE CLOSURES ACCESS FOR EMERGENCY VEHICLES (FIRE, AMBULANCE AND POLICE) MUST BE MAINTAINED AT ALL TIMES ALL EXISTING PAVEMENT MARKINGS THAT ARE REMOVED FOR TRAFFIC CONTROL OR OBLITERATED

DURING CONSTRUCTION OPERATIONS MUST BE REPLACED WITH WATERBORNE FOR THE LONGITUDINAL, ALL SIGN MATERIALS AND SUPPORTS MUST MEET NCHRP-350 CRASH WORTHY REQUIREMENTS.

### TEMPORARY WARNING, REGULATORY AND GUIDE SIGNS NOT REQUIRED FOR A PARTICULAR LANE OR SHOULDER CLOSURE MUST BE REMOVED, COVERED OR LAID DOWN WITH THE LEGS REMOVED.

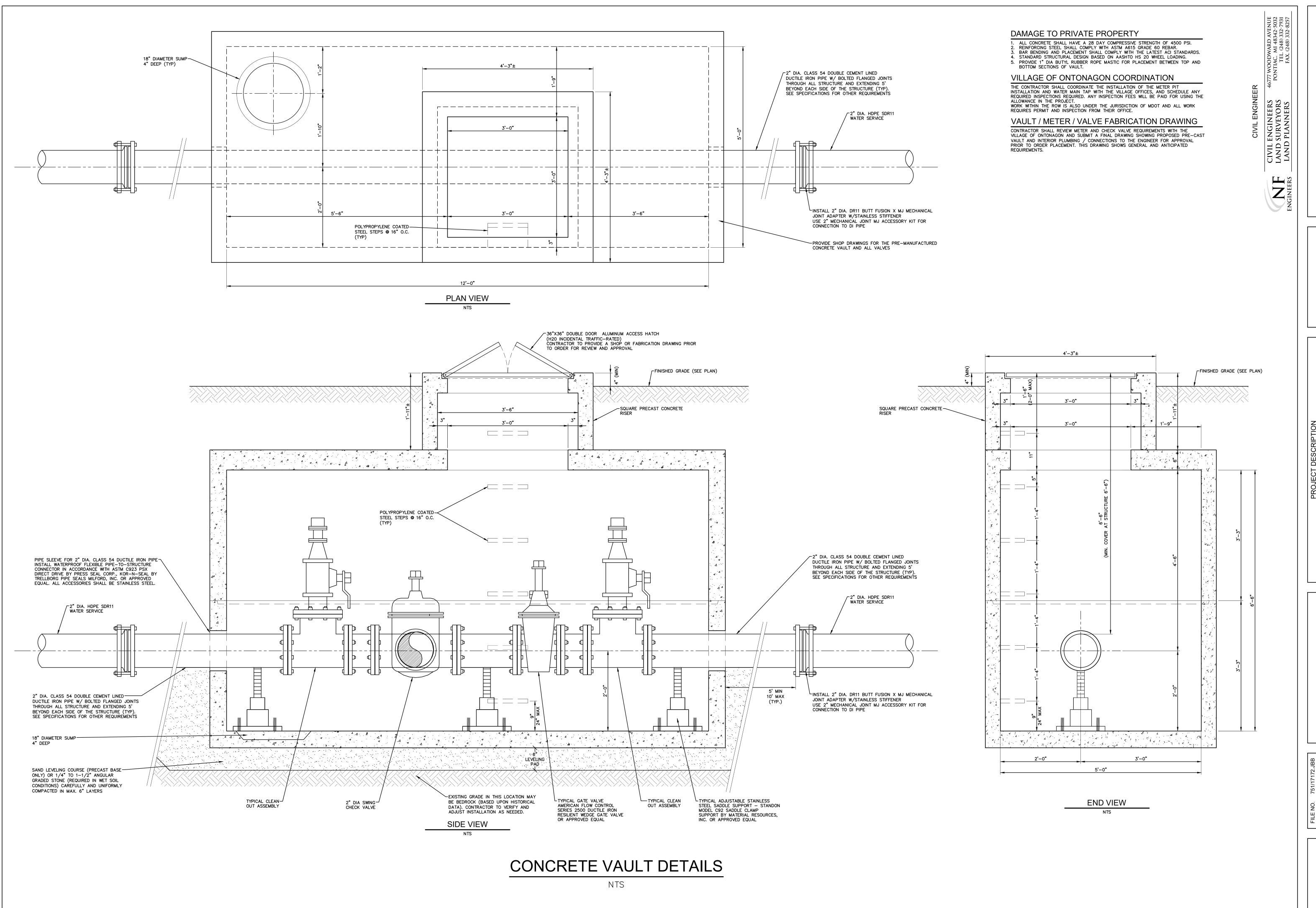
### Potential Bedrock Conditions

BASED UPON FEEDBACK FROM THE VILLAGE OF ONTONAGON, IT IS LIKELY THAT BEDROCK FORMATIONS MAY BE FOUND NEAR THE M-64 / DRIVE INTERSECTION AREA. THIS MAY REQUIRE SOME LEVEL OF BLASTING FOR INSTALLATION OF WATER SERVICE / METER VAULT IN THIS AREA. CONTRACTORS SHOULD INVESTIGATE THIS AND INCLUDE APPROPRIATE COSTS TO DEAL WITH THIS TYPE OF WORK.



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AND

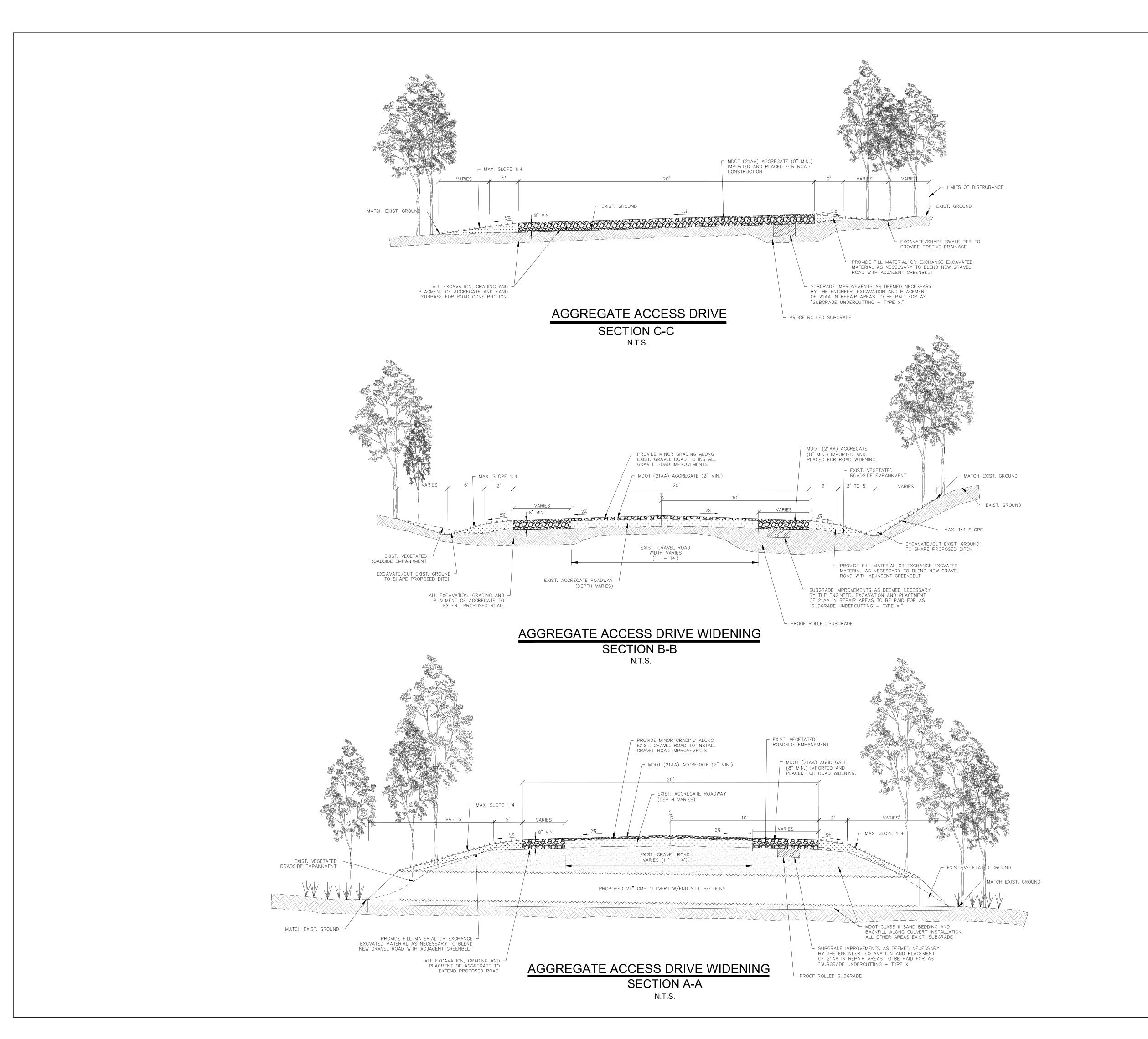


AND CONSTRUCTION DIVISION C. HALL, RA, NCARB, DIRECTOR



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DESIGNED BY	BY MAW
JC/ENG BY	SMS

CLEARING
ALL ADJACENT CLEARING OF TREES, BRUSH, AND OTHER VEGETATION SHALL BE INCLUDED AS PART OF THE INSTALLATION OF OVERALL PROJECT.

MDOT 21AA
ALL PROPOSED 21AA SHALL BE CRUSHED CONCRETE OR LIMESTOEN MEETING MDOT STANDARD GRADATIONS.

SOIL BORING DATA
REVIEW THE SOIL BORINGS FOR EXISTING PAVEMENT DEPTHS, UNDERLYING

SOIL TYPES, GROUND WATER ELEVATIONS, ETC. ASSOCIATED WITH THE

PROJECT.

ALL DISTURBED GREETBELT AREAS SHALL BE RESTORED WITH 3" SCREENED TOPSOIL AND HYDROSEED. ALL SLOPES EXCEEDING 1:4 SHALL ALSO RECEIVE A MULCH BLANKET FOR EROSION PROTECTION.